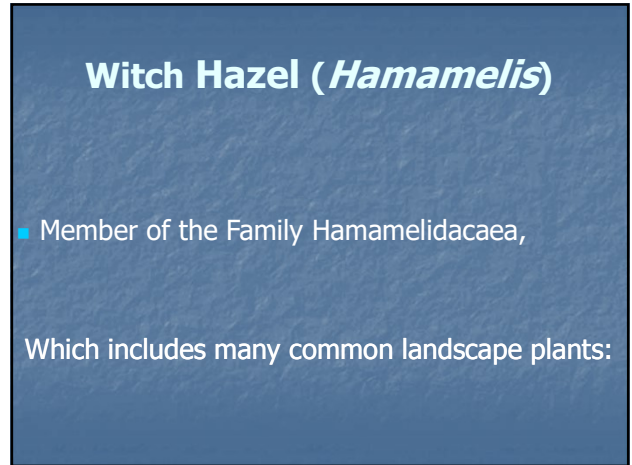




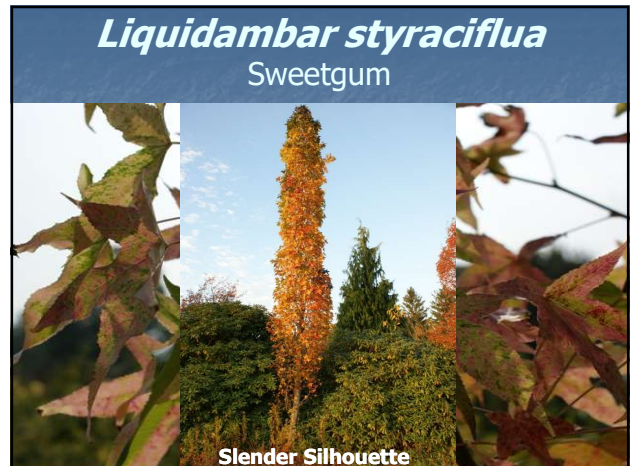
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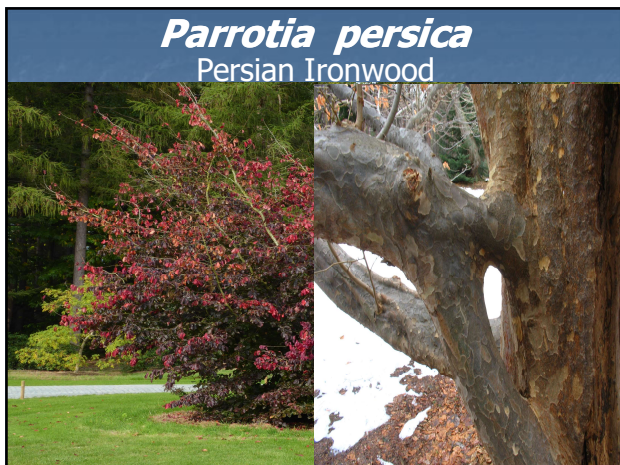
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7

Witch Hazels

5-7 species, native to North America and Asia

"The different species of *Hamamelis* offer no good morphological characters, the structure of the flowers, fruit and seeds being the same in them all"

C. S. Sargent,
Trees & Shrubs, Vol II, 1911

8

"Distinctions between the species are determined by geography, habit, habitat preference, time of anthesis,* and small but distinct morphological differences."

Chris Lane
Witch Hazels, 2005

* definition added: anthesis = onset of flowering

9

".....perhaps the only flowering shrubs in the Northern Hemisphere whose cheerful blooms frame both sides of our harshest season." and "have no peers in brightening the dullness of winter's retreat."

"Many are known only to enthusiasts thereby leaving Witch Hazels, like a chorus line waiting offstage, poised to capture our hearts."

Tim Brotzman
in the forward to *Witch Hazels* by Chris Lane, 2005

10

200 + cultivars, selected for:

- Flower color
- Flower profusion/size
- Fragrance
- Bloom time
- Plant habit
- Autumn color
- Leaf retention
- Disease resistance

(Primarily from England, Belgium, Germany, Holland, USA)

11

Hamamelis virginiana

Common Witch Hazel

- Multi-stem small tree/large shrub 15-30'
- Native Canada to Georgia, west to Nebraska and Arkansas
- Flowers 1/2-1" yellow, sometimes reddish, October-December, mild fragrance, may be hidden by leaves
- Used as understock for grafting all selections.
- Commercial source for liniment.

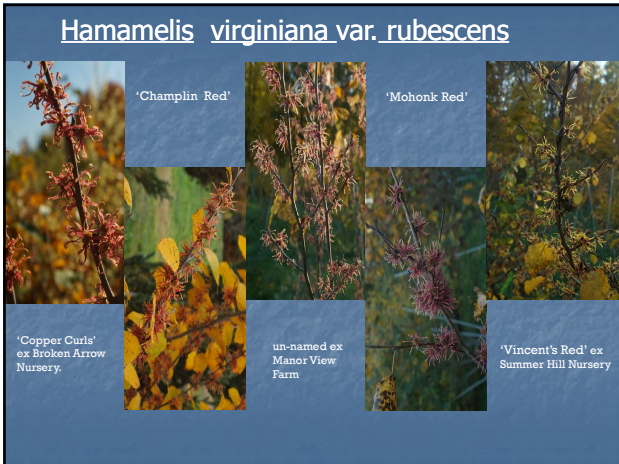
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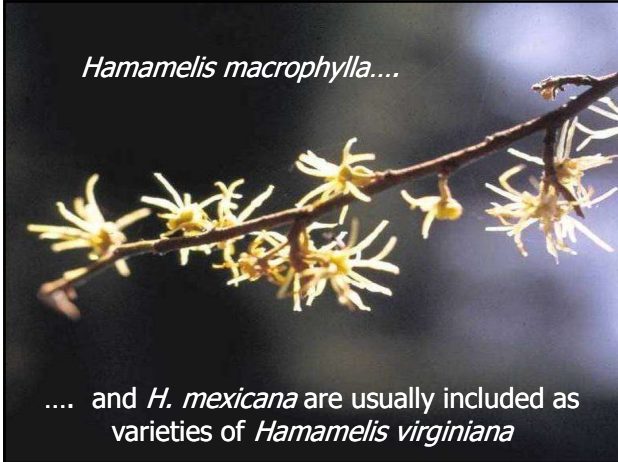
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19

Hamamelis vernalis
Vernal Witch Hazel

- Broad spreading, thick suckering shrub, wider than tall (6-10')
- Native Missouri to Oklahoma, well drained soils but will tolerate seasonal flooding
- Flowers .5" long, yellow, orange to red-purple, musky sweet fragrance, Dec.-March
- Autumn color yellow, orange or red
- Often retains dead leaves when flowering
- **NOT SUITABLE** as a grafting understock

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24

Slide 21

BN3 Brotzman Nursery, 3/17/2010



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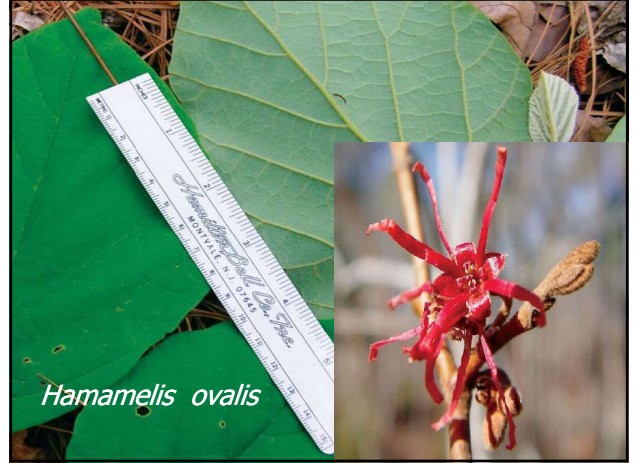


30



Collecting *Hamamelis ovalis* in Alabama , 2009

31



Hamamelis ovalis

32



Hamamelis ovalis

33



Hamamelis ovalis

34



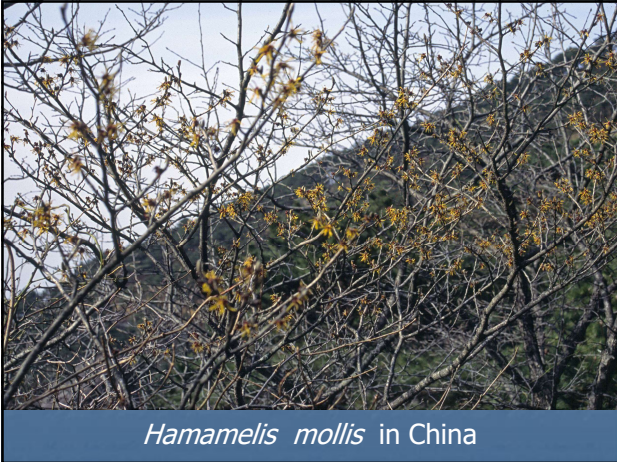
Hamamelis ovalis

35

Hamamelis mollis
Chinese Witch Hazel

- Large shrub to small tree, multi-stem
- Native central China
- Flowers yellow, ½-1" richly fragrant January–March.
- Leaves large, more rounded, hairy, fall color yellow.
- All Witch Hazels prefer well drained, rich soil. Subject to drought stress.

36



Hamamelis mollis in China

37



H. mollis

38



Kew
Gardens
2/1982

39



H. mollis with *Rhododendron mucronulatum*

40



Hamamelis japonica
Japanese Witch Hazel

- Small tree, large shrub to 10-20' tall developing flat top
- Native to Japan where there are many different forms
- Flowers 1/2-3/4", crinkled, yellow to red, often bi-colored. Not as fragrant as mollis.
- Leaves smaller and more angular than mollis. Fall variable: yellow -- orange -- scarlet.



41



Hamamelis japonica

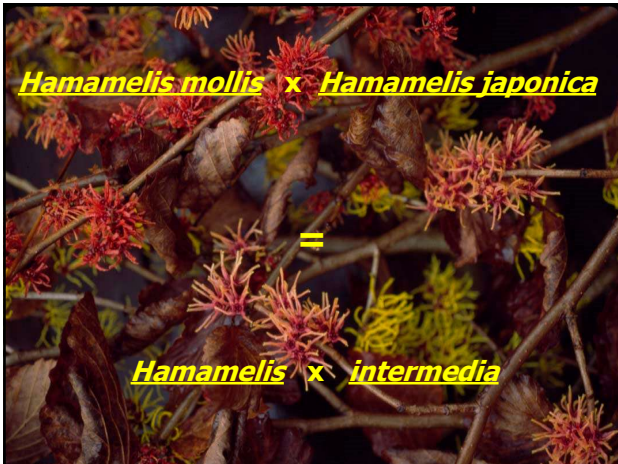
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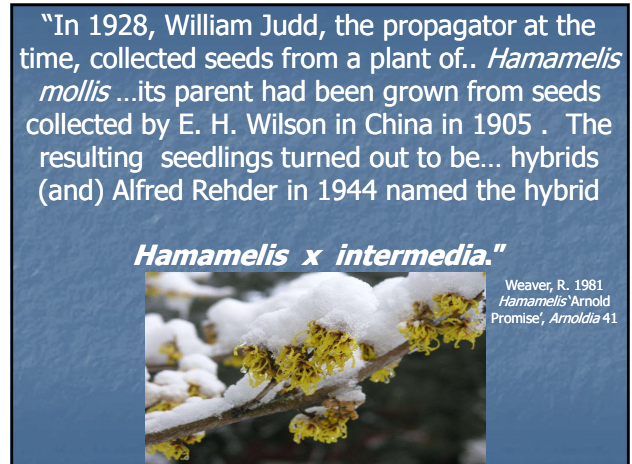
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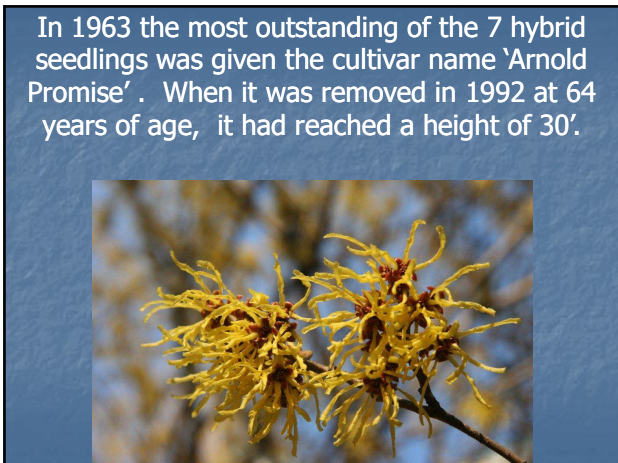
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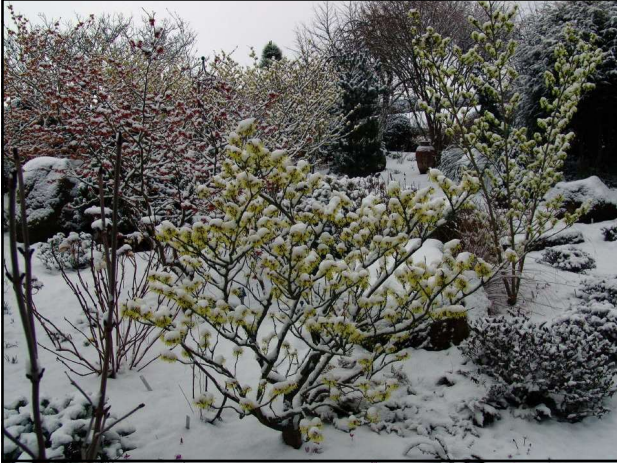
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56



02/21/2015: temperatures -24° to -30° F (-31° to -34° C), killed half of our stock block, including plants 30 years old

57

sun reflecting off of winter snow can kill flower/ vegetative buds on many plants: use low shrubs in front to reduce this problem



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Royal Horticultural Society
Plant Collector Guide

Witch Hazels

Chris Lane

59

- Grafting:
- Creating
- A
- Union →
- Between
- Different
- Plants

← Scion of Plant Desired

Rootstock ←

60



Suckering from roots of *Hamamelis vernalis*

61



Suckering from *H. vernalis* understock

62



Hamamelis grafted on *Parrotia persica*

63



1-year old rooted cutting in 2.25" x 5" T-band pot

overwintered & alive

broke dormancy & died

64



2-year old rooted cuttings transplanted & overwintered minimum heat in quart pot

broke dormancy & alive

broke dormancy & died

65



3-year cuttings transplanted & overwintered minimum heat in #1 container

broke dormancy & alive

broke dormancy & died

66



67

Things to consider.....

- cuttings taken from young cutting-grown plants should have enhanced juvenility and root better than from mature plants
- Plants on their own roots could be used to establish stool beds
- Using roots from own-root plants, graft the same plant onto itself
- Use bare root understock, graft below the hypocotyl to reduce sucker production

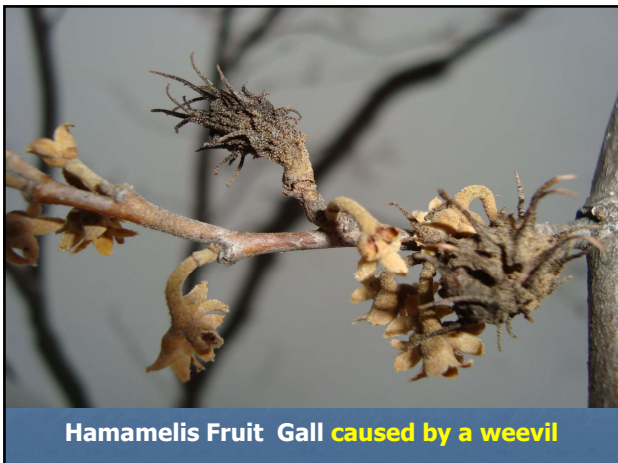
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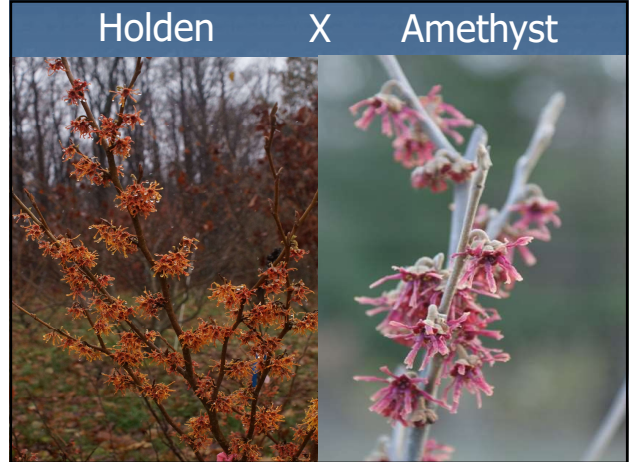


72



Amethyst

73



Holden X Amethyst

74



Hamamelis x 'Beholden'

75



Antoine Kort

76



Aphrodite

77



Arnold Promise

78



Aurora

79



Barmstede Gold

80



Bernstein

81



Birgit

82



Carmine Red

83



Chris

84



85



86



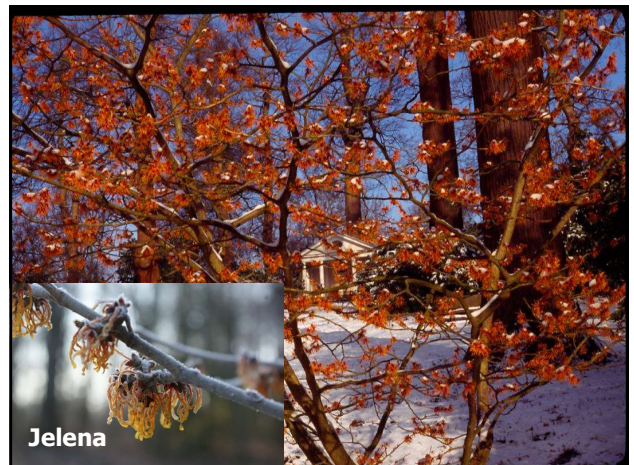
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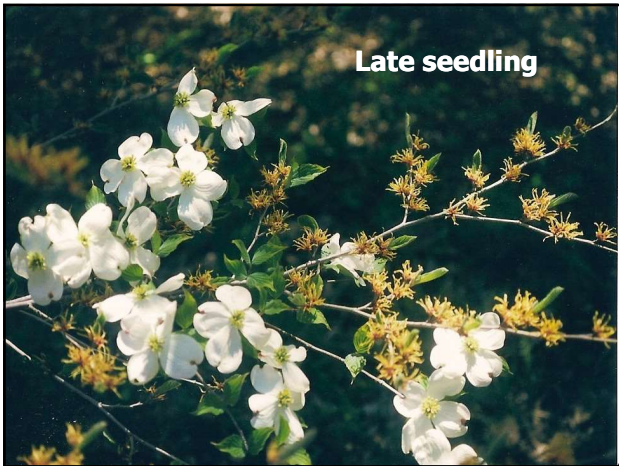
Livia

91



Moonlight

92



Late seedling

93



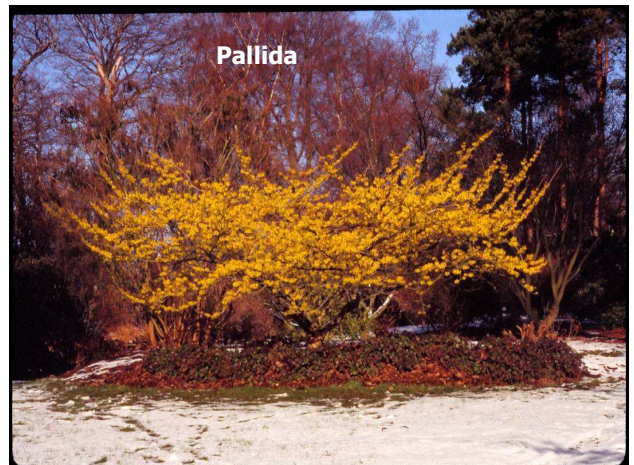
Orange Encore

94



Orange Peel

95



Pallida

96



97



98



99



100



101



102



103



104



105



106



107



108

More things to consider.....

- Recreate the H. x intermedia cross using the superior forms of each specie
- Hybridize with vernalis to increase rootability , hardiness and heat tolerance
- Collect superior forms of H. ovalis and have fun hybridizing
- Identify provenances of H. virginiana less prone to suckering
- Enjoy their unrivaled beauty

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Where to see Witch Hazels

Brookside Gardens, Wheaton, MD

Dawes Arboretum, Newark, OH

Green Springs Gardens, Alexandria, VA

Secrest Arboretum, Wooster, OH

Wegerzyn Metropark, Dayton, OH

[Arboretum Kalmthout](https://www.arboretumkalmthout.be)

<https://www.arboretumkalmthout.be>

[Witch Hazel Nursery, Kent, England](https://witchhazelnursery.com/)

<https://witchhazelnursery.com/>

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